MEAN WELL SWITCHING POWER SUPPLY

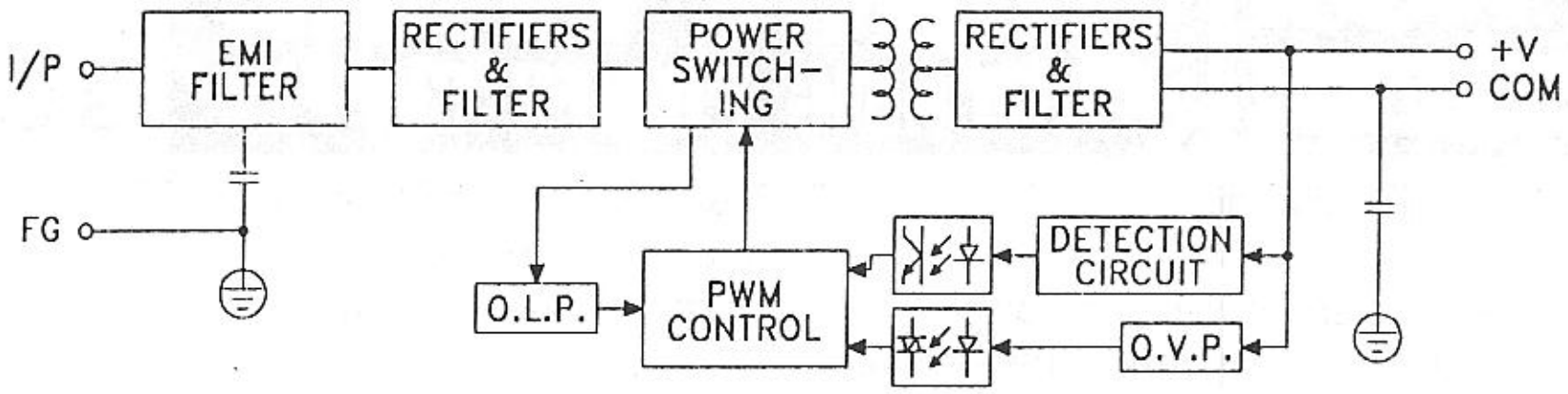
PS-65 SERIES

- LOW COST, HIGH RELIABILITY
- COMPACT SIZE, LIGHT WEIGHT
- 105℃ OUTPUT CAPACITOR
- 100% FULL LOAD BURN-IN TEST
- BUILT IN EMI FILTER, LOW RIPPLE NOISE
- INTERNATIONAL AC INPUT RANGE
- HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- SHORT CIRCUIT,OVER VOLTAGE, OVERLOAD PROTECTED

MODEL / SPECIFICATION	PS-65-3.3	PS-65-5	PS-65-7.5	PS-65-12	PS-65-13.5	PS-65-15	PS-65-24	PS-65-27	PS-65-48
DC OUTPUT VOLTAGE	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V
OUTPUT V. TOLERANCE [2]	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
OUTPUT RATED CURRENT	12A	12A	8A	5.2A	4.7A	4.2A	2.7A	2.4A	1.4A
OUTPUT MIN. CURRENT	0A	0A	0A	0A	0A	0A	0A	0A	0A
OUTPUT MAX. CURRENT [6]	15.2A	14.4A	9.6A	6A	5.4A	4.8A	3A	2.7A	1.5A
RIPPLE & NOISE (p-p) [3]	80mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV
LINE REGULATION [4]	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
LOAD REGULATION [5]	±1%	±1%	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
RATED OUTPUT POWER	39.6W	60W	60W	62.4W	63.5W	63W	64.8W	64.8W	67.2W
MAXIMUM OUTPUT POWER	RATED OUTPUT POWER FOR CONVECTION ; 72W (+3.3V : 50W) WITH 18 CFM MIN. FORCED AIR								
EFFICIENCY	70%	76%	79%	79%	79%	79%	80%	80%	80%
DC VOLTAGE ADJ.	CH1:+10,-5%								
INPUT VOLTAGE RANGE	85～264VAC ; 120～370VDC								
INPUT FREQUENCY	47～440Hz								
AC CURRENT	1.5A/115V 0.9A/230V								
INRUSH CURRENT	COLD START 20A/115V 40A/230V								
OVERLOAD PROTECTION	73～105W (3.3V : 51～75W) OUTPUT POEWR TYPE:FOLDBACK CURRENT LIMITING RECOVERY:AUTO								
OVER VOLTAGE PROTECTION	110～135%								
TEMP. COEFFICIENT	⊥0.04% / ℃ (0～50℃)								
SETUP, RISE, HOLD UP TIME	800ms, 20ms, 20ms								
VIBRATION	10～500Hz:2G 3AXES 10min./1cycle (1 HOUR / EACH AXES)								
WITHSTAND VOLTAGE	I/P-O/P:3KV I/P-FG:1.5KV O/P-FG:0.5KV 1min.								
WORKING TEMP., HUMIDITY	-10℃～60℃, 20%～90% RH (REFER TO OUTPUT DERATING CURVE)								
STORAGE TEMP., HUMIDITY	-20℃～+85℃, 10%～95% RH								
DIMENSION	127＊76.2＊40mm (L＊W＊H) PCB ONLY								
WEIGHT	0.28Kgs								
SAFETY STANDARDS	MEET UL1950, TUV EN60950								
EMC STANDARDS [7]	MEET CISPR22 (EN55022) CLASS B, IEC1000-2,3,4								

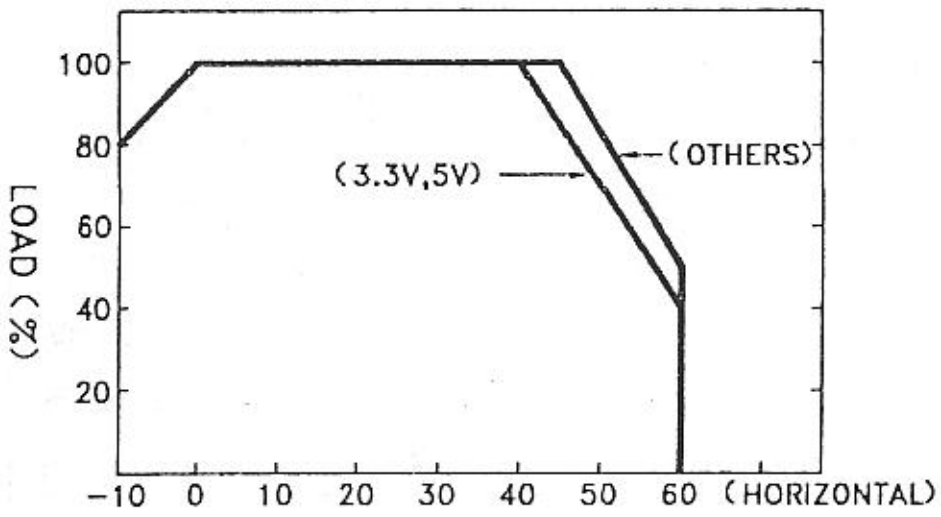
NOTE : 1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25℃ AMBIENT.
2.TOLERANCE : INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5.LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD, AND OTHER OUTPUT AT 60% RATED LOAD.
6.EACH OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TOTAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER.
7. MOUNTING HOLES M1 AND M2 SHOULD BE GROUNDED FOR EMI PURPOSES.

BLOCK DIAGRAM

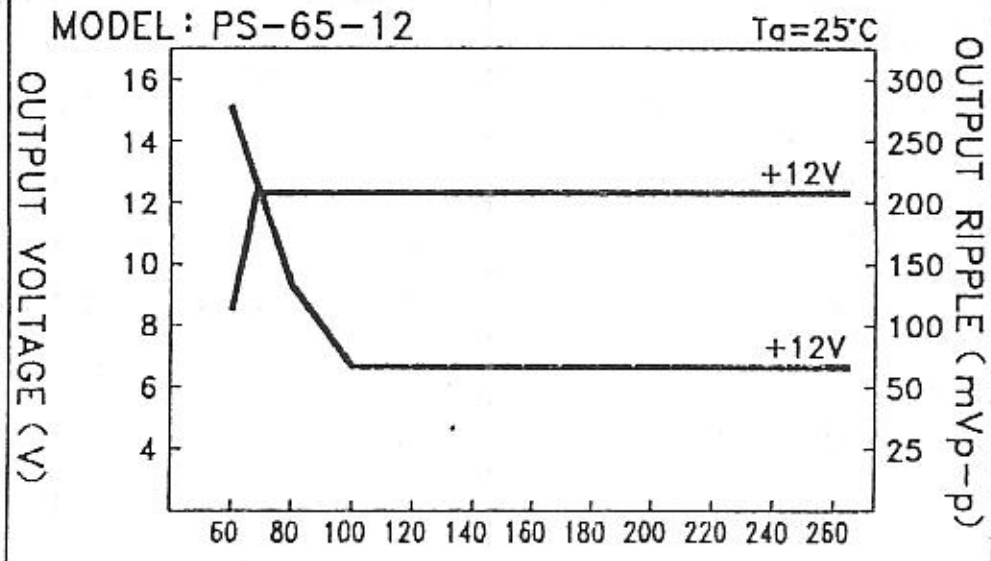


fosc : 65KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

☒ TERMINAL PIN NO. ASSIGNMENT
- ☒ CN1 : AC INPUT
- ☒ CN2 : DC OUTPUT
  - ☒ PIN 1,2,3: DC OUTPUT +V
  - ☒ PIN 4,5,6: DC OUTPUT GND